#2

OIPE

RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,354 TIME: 14:29:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\12112001\I003354.raw

## **ENTERED**

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6 <110> APPLICANT: C. Frank Bennett
              Susan M. Freier
      9 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHATIDYLINOSITOL-4-PHOSPHATE 5-
KINASE, I?
     10
              EXPRESSION
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C--> 14 <141> CURRENT FILING DATE: 2001-12-06
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    56 agcttactct tctgtgaaag gggaaagtat cccctgtgga aagcggttaa acttgtggag 180
    57 ggggtgcggg acgtgagttc ttccccatgc caggcgaatg gtgtggcctt gagctggtcc 240
    58 aggageegge tegaegtgte tgagggagge eeggaggggg eggggaggtg geecacagaa 300
    59 cgcgggttct gtaaagagac gttgggaaga ttcgattccg agaagaggaa gaaccggatt 360
    60 gaaagagagc caggccgctg agggggaggg ggctgctaag atg gcg tcg gcc tcc
                                                                           415
    61
                                                     Met Ala Ser Ala Ser
    62
    64 tee ggg ceg teg tet teg gte ggt ttt tea tee ttt gat eee geg gte
                                                                           463
    65 Ser Gly Pro Ser Ser Ser Val Gly Phe Ser Ser Phe Asp Pro Ala Val
                                             15
                         10
    68 cct tcc tgt acc ttg tcc tca gca tct gga atc aag aga ccc atg gca
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    69 Pro Ser Cys Thr Leu Ser Ser Ala Ser Gly Ile Lys Arg Pro Met Ala
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RAW SEQUENCE LISTING DATE: 12/12/2001 PATENT APPLICATION: US/10/003,354 TIME: 14:29:56

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				Pro		-			_			_					
74			40					45					50				
				gat													607
77	Arg	Ser	Val	Asp	Ser	Ser	Gly	Glu	Thr	Thr	Tyr	Lys	Lys	Thr	Thr	Ser	
78		55					60					65					
				aaa													655
81	Ser	Ala	Leu	Lys	Gly	Ala	Ile	Gln	Leu	Gly	Ile	Thr	His	Thr	Val	Gly	
82	70					75					80					85	
				acc													703
85	Ser	Leu	Ser	Thr	Lys	Pro	Glu	Arg	Asp	Val	Leu	Met	Gln	Asp	Phe	Tyr	
86					90					95					100		
				agt													751
89	Val	Val	Glu	Ser	Ile	Phe	Phe	Pro	Ser	Glu	Gly	Ser	Asn		Thr	Pro	
90				105					110					115			
				tac													799
93	Ala	His		$\mathtt{Tyr}$	Asn	Asp	Phe	_	Phe	Lys	Thr	Tyr		Pro	Val	Ala	
94			120					125					130				
		_		ttc													847
		_	Tyr	Phe	Arg	Glu		Phe	Gly	Ile	Arg		Asp	Asp	Tyr	Leu	
98		135					140					145					005
																gct	895
	-		: Le	ı Cys	Sei			Let	1 116	e GIU			s Ser	: Sei	r Giy	y Ala	
	150					155					160	-				165	0.4.2
																aag	943
	ser	. GIZ	sei	r Leu		_	val	. sei	r sei	_	_	) GIU	ı Pile	; TT6		e Lys	
106					170					175				+4	180		991
		-						_								a gga	991
110	1111	Val	. GII	1 HIS	_	s Gru	Ald	ı Gı	190		ı Gli	гга	ь пес	195		o Gly	
	+ = 0	+ = 0	+.			, ,,,		. 22/			r act	++	r cto		_	a ttc	1039
																s Phe	1037
114	TYL	1 Y 1	200		пес	LASI	GII.	205		, vi	, 1111	. 1100	210		, Ly.	, , , , ,	
	tat	aae			tat	a ta	cao				aac	r aad			ı att	gtg.	1087
																e Val	100,
118	- 1 -	215		1-	015	, , , ,	220		. 011	011	21.	225			,	, ,	
	ata			. aat	ctt	tta			a too	r ata	aaa			ato	aaa	a tat	1135
		-						_	_	_						Tyr	
	230					235			, 55-		240				1	245	
			aaa	a aac	tca			aaa	cac	r cac			caq	aaa	a qaq	g cga	1183
																ı Arg	
126			-1-	1	250		- 1 -	1	-	255				-	260		
	qaq	aaq	cct	ctt	ccc	aca	ttt	aaa	qac	: cta	qac	: ttc	: tta	caa	a gad	atc	1231
	-	-							-		-					Ile	
130		-		265				-	270		-			275			
	cct	gat	ggt			ttq	gat	gct	gac	atq	tac	aac	gct	cto	tgt	aag	1279
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134		_	280				_	285	_		_		290				
136	acc	ctg	cag	r cgt	gac	: tgt	ttg	gto	, ctg	cag	ago	tto	aag	ata	ato	g gat	1327



DATE: 12/12/2001

## RAW SEQUENCE LISTING

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Input Set : A:\ES.txt

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	+20		ata	++ <i>a</i>	ata	toa		cat	aat	ata	aat		aca.	caa	cas	a a a	1375
		_		_	_			His			_		_		_		13/3
	310	561	пси	пец	ricc	315	110	1113	ASII	110	320	1113	AIG	OIII	nig	325	
		tta	age	ant	naa		сап	tac	tca	att		act	спа	aga	cca		1423
			_	_	_		_	Tyr		_	_		_	-	_	-	1423
146	FIO	пец	261	261	330	1111	GIII	1 J T	Ser	335	тэр	1111	ALY	пту	340	лια	
_	ccc	саа	aad	act		tat	tcc	aca	acc		αаа	tee	atc	саσ		ααα	1471
								Thr									14/1
150	110	0111	_,5	345	БСи	-1-	001		350	1100	OLu	OCI		355		Olu	
	act	саа	caa.		aat	acc	atσ	gag		σat	gac	cat	atα		aac	atc	1519
								Glu									1017
154		**** 9	360	0-1	0-1			365		pp			370	011	011	110	
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		-			_			Glu			_						,
158		375	5			~10	380		9			385	-1-		<b>0</b> -1		
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		_			-			Arg		-	_	_	_				
162		- L				395	4	,			400	4				405	
		aaa	qcc	ctq	qta	cat	gac	gga	gac	act	qtc	tca	qtq	cat	cqc	cca	1663
								Gly									
166	_	_			410		_	_	_	415					420		
168	ggc	ttc	tac	gct	gaa	cgg	ttc	cag	cgc	ttc	atg	tgc	aac	aca	gta	ttt	1711
169	Gly	Phe	Tyr	Ala	Glu	Arg	Phe	Gln	Arg	Phe	Met	Cys	Asn	Thr	Val	Phe	
170				425					430					435			
172	aag	aag	att	ccc	ttg	aag	cct	tct	cct	tcc	aaa	aag	ttt	cgg	tct	ggc	1759
173	Lys	Lys	Ile	${\tt Pro}$	Leu	Lys	${\tt Pro}$	Ser	Pro	Ser	Lys	Lys	Phe	Arg	Ser	Gly	
174			440					445					450				
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177	Ser	Ser	Phe	Ser	Arg	Arg	Ala	Gly	Ser	Ser	Gly	Asn	Ser	Cys	Ile	Thr	
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								gaa									1855
		Gln	Pro	Ser	Val		Gly	Glu	His	Lys		Gln	Val	Thr	Thr	_	
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	_	_					_	cac			_		_	_			1903
	Ala	Glu	Val	Glu		Gly	Val	His	Leu	_	Arg	Pro	Asp	Val		Pro	
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	GIn	Thr	Pro		Leu	GLu	Glu	Ile		GIU	GTÄ	ser	Pro		Pro	Asp	
190				505		_4_			510					515			1000
								gga									1999
	PLO	ser		ser	PLO	ьeu	val	Gly 525	GIU	THE	ьeu	GTU		neu	THE	THE	
194	24+	262	520	++~	<i>a</i> • •	224	a++		a++	~~~	~~~	+ ==	530	++~	200	aat	2047
	_			_	_	_		gaa	_	-							2047
197	ser.	535	THE	ьeu	GIU	гуз	ьеu 540	Glu	vаı	ATG	GIU	545	Gru	File	THE	птѕ	
	+22		12227	+		. 2 ~ 2 ^		gaac	,,,,,,,	. ++-	1+000		+ 0+ 0	+ ~ = +	.00		2100
																aaaag	
204	Caag	jacyt	.ca g	الالالالا	. cycc		iycad	Lyct	. yac			CLAC	cugg	LC 0	LUad	uaaay	2100

DATE: 12/12/2001



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205	gagtgtaata	gaagtgaggg	gagetgetee	tecatettet	tcctgaagaa	gaacettete	2220
					agttgaggac		
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					ttcctcagga		
					ggaagaatac		
					cccagctttc		
					caagccattt		
					ctcagaagag		
					cctctttaaa		
					gacatggggt		
					atagcccttc		
					caatttgaaa		
					atcattctcc		
					ttgtggagct		
					gaggccagca		
					tcattgctgt		
					ctacatatgc		
					tcttgtcagg		
					cccttctcta		
					tattagacac		
					aggaaagaat		
					ttattaagga		
					agggaaagga		
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DATE: 12/12/2001 RAW SEQUENCE LISTING TIME: 14:29:56 PATENT APPLICATION: US/10/003,354

Input Set : A:\ES.txt
Output Set: N:\CRF3\12112001\1003354.raw

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**VERIFICATION SUMMARY** 

PATENT APPLICATION: US/10/003,354

DATE: 12/12/2001

TIME: 14:29:57

Input Set : A:\ES.txt .

Output Set: N:\CRF3\12112001\I003354.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date